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(54) NEW ARYLGLYCINAMIDE DERIVATIVE AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To provide a new arylglycinamide derivative useful as an agent for the treatment of urinary disturbance such as incontinence of urine and pollakiuria.

CONSTITUTION: The compound of formula I [Ar is (substituted) phenyl or (substituted) naphthyl; R1 and R4 are H or 1-3C alkyl; R2 is 1-6C alkyl, 3-6C cycloalkyl, (substituted) 1-4C alkyl, norbornyl, adamantyl or (substituted) phenyl; R3 is H, 1-6C alkyl or together with R2 form an alkylene; R5 is 1-6C alkyl or 5-6C cycloalkyl; R6 is H, 1-6C alkyl or together with R5 form an alkylene; (m) is 2 or 31 and its salt, e.g. N-cyclohexyl-α-[[2-(t-butylamino) ethyl]amino] phenylacetic acid amide. The compound can be produced by reacting a compound of formula II (X is eliminable group) with a compound of formula III.

$$\begin{array}{c} R_1 & O \\ R_1 & R_2 \\ R_1 & C - C - N \\ R_2 & R_3 \end{array}$$

$$R_1 & C - R_3 \\ R_4 & R_5 \\ R_5 & R_5 \end{array}$$

$$\begin{array}{c|c} R_1 & O \\ \downarrow & \parallel & R_2 \\ \downarrow & & R_3 \end{array}$$

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